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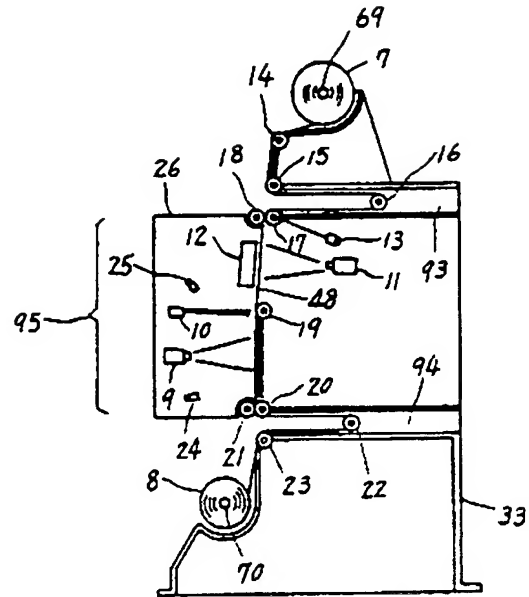
APPLICATION DATE : 21-10-85
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APPLICANT : HITACHI LTD;

INVENTOR : TAKATO MASAO;

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TITLE : AUTOMATIC CLOTH INSPECTING
MACHINE USING IMAGE
PROCESSING



ABSTRACT : PURPOSE: To perform high speed processing fitted to a line speed and to make it possible to inspect a flaw part in detail, by dividing image processing function into rough inspecting function and precise inspecting function and properly using both functions.

CONSTITUTION: Cloth 7 wound in a roll form is run by intermediate rollers 14, 15, a looper roller 16 and rollers 17, 18 and roughly inspected by a line sensor camera 10. When the presence of a flaw is judged by this rough inspection, a line speed is made sufficiently slow to transfer the cloth 7 to precise inspection processing and the precise surface inspection of the cloth using reflected light is performed by an ITV camera 9 and the analysis of the image in the periphery of a flaw generated area to inspect a flaw in detail. The measure or position of the flaw is measured to be outputted to the cloth or transmitted to a host calculator. The ITV camera performs inspection by transmitted light in order to inspect a hole flaw and the inspected cloth 48 is taken up in a reel side 8 through rollers 20, 21, a looper roll 22 and an intermediate roller 23.

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